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Supplemental Material

Incense Burning during Pregnancy and Birth Weight and Head Circumference among Term Births: The Taiwan Birth Cohort Study

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Table S1:	Incense	Rurning	and Rirth	Weight ^a
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	Model 1	Model 2	Model 3	
Exposure	β (95% CI)	β (95% CI)	β (95% CI)	
All Babies $(n = 15,$	773)			
	-7.17 (-19.98, 5.65)			
Maternal smoking	-112.4** (-146.4,-78.44)	-106.3** (-139.6,-73.13)	-114.2** (-147.9,-80.59)	
R-squared	0.04	0.07	0.08	
Boys $(n = 8,216)$				
Burn incense	-18.25 [*] (-36.01, -0.49)	-18.83* (-36.33,-1.33)	-18.41 [*] (-35.88, -0.94)	
Maternal smoking		-99.06** (-141.6,-56.50)	,	
R-squared	0.02	0.05	0.06	
Girls (n = 7,557) Burn incense Maternal smoking	4.65 (-13.89, 23.20) 125 5** (-178 2, 72.78)	0.13 (-18.08, 18.33) -114.5** (-166.1,-62.82)		
Waternar Smoking	-123.3 (-176.2,-72.76)	-114.5 (-100.1,-02.62)	-122.1 (-1/4.5,-09.05)	
R-squared	0.02	0.06	0.06	

^aResults from ordinary least square regressions. 95% Confidence intervals reported in parentheses. Model 1 controls for demographic variables (marital status, mother's age, education and religion, father's age, education and religion, region of birth). Model 2 is additionally adjusted for parental health characteristics (mother's bmi and chronic illness). Model 3 is additionally adjusted for parental health characteristics and pregnancy related variables (hospitalized, pregnancy illness, gestational diabetes, tocolysis, injury to abdomen, first pregnancy, previous abortion, previous miscarriage, children below 6, no. of live births).

^{*}p < .05; **p < .01.

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Table S2: Incense Burning and Head Circumference^a

rable 52. Incense Burning and Head Circumference					
	Model 1	Model 2	Model 3		
Exposure	β (95% CI)	β (95% CI)	β (95% CI)		
All Babies (n = 14,488)					
Burn incense	-0.74* (-1.31,-0.17)	-0.80** (-1.37,-0.23)	-0.84** (-1.41,-0.27)		
Maternal smoking	-2.84** (-4.32,-1.36)	-2.70** (-4.17,-1.23)	-3.04** (-4.52,-1.56)		
R-squared	0.05	0.05	0.05		
Boys $(n = 7,551)$					
Burn incense	-0.95* (-1.75,-0.15)	-0.96* (-1.76,-0.17)	-0.95* (-1.75,-0.16)		
Maternal smoking	-1.27 (-3.14, 0.61)	-1.22 (-3.07, 0.64)	$-1.63^{\dagger} \ (-3.51, 0.25)$		
R-squared	0.03	0.04	0.04		
Girls $(n = 6.937)$					
Burn incense	-0.49 (-1.32, 0.33)	-0.62 (-1.45, 0.20)	-0.71^{\dagger} (-1.54, 0.11)		
Maternal smoking	-4.55** (-6.85,-2.26)	-4.24** (-6.52,-1.97)	-4.44** (-6.75,-2.14)		
R-squared	0.03	0.05	0.06		

^aResults from ordinary least square regressions. 95% Confidence intervals reported in parentheses. Model 1 controls for demographic variables (marital status, mother's age, education and religion, father's age, education and religion, region of birth). Model 2 is additionally adjusted for parental health characteristics (mother's bmi and chronic illness, father's bmi and chronic illness). Model 3 is additionally adjusted for parental health characteristics and pregnancy related variables (hospitalized, pregnancy illness, gestational diabetes, tocolysis, injury to abdomen, first pregnancy, previous abortion, previous miscarriage, children below 6, no. of live births).

 $^{^{\}dagger}$ p < .10; * p < .05; ** p < .01.

Table S3: Incense Burning and Birth Weight Quantile Estimates^a

	10 th Decile	30 th Decile	50 th Decile	70 th Decile	90 th Decile
Exposure	β (95% CI)	β (95% CI)	β (95% CI)	β (95% CI)	β (95% CI)
All Babies (n = 15,	773)				
Burn incense	-19.73 [†] (-39.75, 0.30)	-19.21* (-34.03,-4.39)	-3.19 (-17.62, 11.24)	-7.51 (-23.81, 8.79)	1.704 (-24.47, 27.88)
Maternal smoking	-155.3** (-206.2,-104.4)	-93.11** (-130.8,-55.4)	-89.47** (-126.2,-52.77)	-116.0** (-157.5,-74.59)	-99.11** (-165.7,-32.53)
Average birthweight	2,700 g	2,972 g	3,150 g	3,350 g	3,650 g
Boys $(n = 8,216)$					
Burn incense	-32.09* (-59.93, -4.24)	-26.59* (-46.83,-6.35)	-13.26 (-34.10, 7.58)	-16.91 (-40.08, 6.27)	4.52 (-32.63, 41.67)
Maternal smoking	-125.9** (-195.9,-55.85)	-93.52** (-144.5,-42.59)	-86.12** (-138.6,-33.68)	-110.6** (-168.9,-52.33)	-84.22 [†] (-177.7, 9.24)
Average birthweight	2,750 g	3,005 g	3,200 g	3,400 g	3,700 g
Girls $(n = 7,557)$					
Burn incense	-5.07 (-33.89, 23.75)	-10.27 (-32.12, 11.58)	6.45 (-13.83, 26.73)	7.85 (-15.45, 31.14)	8.05 (-30.05, 46.14)
Maternal smoking	-155.6** (-230.0,-81.12)	-105.3** (-161.8,-48.91)	-83.95** (-136.3,-31.58)	-106.7** (-166.8,-46.53)	-66.13 (-164.5, 32.23)
Average birthweight	2,658 g	2,910 g	3,100 g	2,390 g	3,600 g

^aResults from quantile regressions. 95% Confidence intervals reported in parentheses. All regressions include controls for parental demographics (marital status, mother's age, education and religion, father's age, education and religion, region of birth), parental health characteristics (mother's bmi and chronic illness, father's bmi and chronic illness) and maternal pregnancy related issues (hospitalized, pregnancy illness, gestational diabetes, tocolysis, injury to abdomen, first pregnancy, previous abortion, previous miscarriage, children below 6, no. of live births).

 $^{^{\}dagger}$ p < .10; * p < .05; ** p < .01.

Table S4: Incense Burning and Head Circumference Quantile Estimates^a

	10 th Decile	30 th Decile	50 th Decile	70 th Decile	90 th Decile
Exposure	β (95% CI)	β (95% CI)	β (95% CI)	β (95% CI)	β (95% CI)
All Babies (n = 14,488)					
Burn incense	-1.58** (-2.47,-0.67)	-1.07** (-1.80,-0.34)	-0.53^{\dagger} (-1.16, 0.09)	-0.42 (-1.12, 0.28)	-0.78 (-1.72, 0.15)
Maternal smoking	-3.82** (-6.12,-1.52)	-2.78** (-4.64,-0.92)	-2.20** (-3.80,-0.60)	-1.22 (-3.33, 0.25)	-2.35^{\dagger} (-4.74, 0.04)
Average head circumference	315 mm	325 mm	330 mm	340 mm	350 mm
Boys $(n = 7,551)$	**	*		**	*
Burn incense	-1.54** (-2.64,-0.45)	-1.05* (-2.00,-0.10)	-0.47 (-1.41, 0.47)	-0.81** (-1.79, 0.17)	-1.66* (-3.15,-0.16)
Maternal smoking	-2.08 (-4.86, 0.71)	-1.88 (-4.31,-0.54)	-0.36 (-2.75, 2.04)	-0.26 (-2.76, 2.23)	-1.37 (-5.17, 2.43)
Average head circumference	320 mm	330 mm	335 mm	345 mm	355 mm
Girls $(n = 6,937)$	**				
Burn incense	-1.81** (-3.18,-0.43)	-0.85 (-1.94, 0.24)	-0.58 (-0.58, 0.24)	0.01 (-0.93, 0.95)	0.43 (-0.83, 1.69)
Maternal smoking	-4.29 [*] (-7.80,-0.72)	-3.67* (-6.48,-0.86)	-2.50* (-4.62,-0.38)	-3.82** (-6.24,-1.40)	-3.31* (-6.56,-0.06)
Average head circumference	310 mm	325 mm	330 mm	340 mm	350 mm

^aResults from quantile regressions. 95% Confidence intervals reported in parentheses. All regressions include controls for parental demographics (marital status, mother's age, education and religion, father's age, education and religion, region of birth), parental health characteristics (mother's bmi and chronic illness, father's bmi and chronic illness) and maternal pregnancy related issues (hospitalized, pregnancy illness, gestational diabetes, tocolysis, injury to abdomen, first pregnancy, previous abortion, previous miscarriage, children below 6, no. of live births).

 $^{^{\}dagger}$ p < .10; * p < .05; ** p < .01.

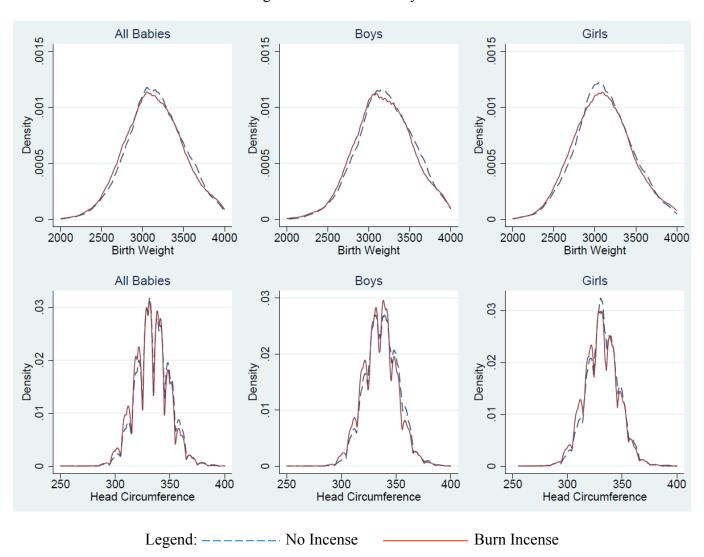


Figure S1: Kernel Density Plots

Note: Estimates are not adjusted for any covariates and are based on full-term singleton infants. Birth weight: all babies (n = 15,773), boys (n = 8,216) and girls (n = 7,557). Head circumference sample: all babies (n = 14,488), boys (n = 7,551) and girls (n = 6,937).